1644

Does Not Comply
Corrected Diskette Needed

pr2,5

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RAW SEQUENCE LISTING DATE: 08/01/2000 PATENT APPLICATION: US/09/248,964 TIME: 13:05:48
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         STROMINGER, Jack L
   <120> TITLE OF INVENTION: MONOVALENT, MULTIVALENT AND MULTIMERIC MHC BINDING
         DOMAIN FUSION PROTEINS AND CONJUGATES, AND USES
         THEREFOR
.10 <130> FILE REFERENCE: HAR-005
12 <140> CURRENT APPLICATION NUMBER: 09/248,964
13 <141> CURRENT FILING DATE: 1999-02-12
15 <150> PRIOR APPLICATION NUMBER: PCT/US97/14503
16 <151> PRIOR FILING DATE: 1997-08-15
18 <150> PRIOR APPLICATION NUMBER: 60/075,351
19 <151> PRIOR FILING DATE: 1998-02-19
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22 <151> PRIOR FILING DATE: 1996-08-15
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63 1
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                                                            15
65 gcc gag ttc tat ctg aat cct gac caa tca ggc gag ttt atg ttt gac
66 Ala Glu Phe Tyr Leu Asn Pro Asp Gln Ser Gly Glu Phe Met Phe Asp
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DATE: 08/01/2000 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/248,964 TIME: 13:05:48 Input Set : A:\HAR005.APP.app Output Set: N:\CRF3\08012000\I248964.raw 69 ttt gat ggt gat gag att ttc cat gtg gat atg gca aag aag gag acg 70 Phe Asp Gly Asp Glu Ile Phe His Val Asp Met Ala Lys Lys Glu Thr 35 40 45 73 gtc tgg cgg ctt gaa gaa ttt gga cga ttt gcc agc ttt gag gct caa 74 Val Trp Arg Leu Glu Glu Phe Gly Arg Phe Ala Ser Phe Glu Ala Gln 75 50 60 77 ggt gca ttg gcc aac ata gct gtg gac aaa gcc aac ttg gaa atc atg 78 Gly Ala Leu Ala Asn Ile Ala Val Asp Lys Ala Asn Leu Glu Ile Met 79 65 . 70 . 75 . 80 81 aca aag cgc tcc aac tat act ccg atc acc aat gta cct cca gag gta 82 Thr Lys Arg Ser Asn Tyr Thr Pro Ile Thr Asn Val Pro Pro Glu Val 85 90 85 act gtg ctc acg aac agc cct gtg gaa ctg aga gag ccc aac gtc ctc 86 Thr Val Leu Thr Asn Ser Pro Val Glu Leu Arg Glu Pro Asn Val Leu 336 100 105 110 89 atc tgt ttc ata gac aag ttc acc cca cca gtg gtc aat gtc acg tgg 90 lle Cys Phe lle Asp Lys Phe Thr Pro Pro Val Val Asn Val Thr Trp 91 115 120 125 93 ctt cga aat gga aaa cct gtc acc aca gga gtg tca gag aca gtc ttc 94 Leu Arg Asn Gly Lys Pro Val Thr Thr Gly Val Ser Glu Thr Val Phe 135 95 130 140 97 ctg ccc agg gaa gac cac ctt ttc cgc aag ttc cac tat ctc ccc ttc 98 Leu Pro Arg Glu Asp His Leu Phe Arg Lys Phe His Tyr Leu Pro Phe 99 145 150 155 101 ctg ccc tca act gag gac gtt tac gac tgc agg gtg gag cac tgg ggc 102 Leu Pro Ser Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His Trp Gly 528 170 165 175 105 ttg gat gag cct ctt ctc aag cac tgg gag ttt gat gct cca agc cct 106 Leu Asp Glu Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro Ser Pro 107 180 185 190 109 ctc cca gag act aca gag gtc gac gga ggt ggc ggc ggt tta act gat 110 Leu Pro Glu Thr Thr Glu Val Asp Gly Gly Gly Gly Gly Leu Thr Asp 111 195 200 205 113 aca ctc caa gcg gag aca gat caa ctt gaa gac gag aag tct gcg ttg 114 Thr Leu Gln Ala Glu Thr Asp Gln Leu Glu Asp Glu Lys Ser Ala Leu 210 215 220 117 cag acc gag att gcc aat cta ctg aaa gag aag gaa aaa ctg gag ttc 720 118 Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe 119 225 230 235 240 121 atc ctg gcc gcc cat tgagaattct atgac 750 122 Ile Leu Ala Ala His 123 126 <210> SEQ ID NO: 2 127 <211> LENGTH: 245 see den 7 on Enn Summary Sheet 128 <212> TYPE: PRT 129 <213> ORGANISM: Artificial Sequence W--> 131 (220) FEATURE: W--> 161 <223> OTHER INFORMATION:

RAW SEQUENCE LISTING

DATE: 08/01/2000 TIME: 13:05:48

PATENT APPLICATION: US/09/248,964

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Output Set: N:\CRF3\08012000\1248964.raw

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138 Phe Asp Gly Asp Glu Ile Phe His Val Asp Met Ala Lys Lys Glu Thr
139 35 40 45
141 Val Trp Arg Leu Glu Glu Phe Gly Arg Phe Ala Ser Phe Glu Ala Gln 142 \phantom{0}50\phantom{0} 55 \phantom{0}60\phantom{0}
144 Gly Ala Leu Ala Asn Ile Ala Val Asp Lys Ala Asn Leu Glu Ile Met
                           70
                                                75.
147 Thr Lys Arg Ser Asn Tyr Thr Pro Ile Thr Asn Val Pro Pro Glu Val
                     85
                                            90
    Thr Val Leu Thr Asn Ser Pro Val Glu Leu Arg Glu Pro Asn Val Leu 100 105 110
                100
                                       105
153 Ile Cys Phe Ile Asp Lys Phe Thr Pro Pro Val Val Asn Val Thr Trp
154 115 120 125
156 Leu Arg Asn Gly Lys Pro Val Thr Thr Gly Val Ser Glu Thr Val Phe
157 130 135 140
159 Leu Pro Arg Glu Asp His Leu Phe Arg Lys Phe His Tyr Leu Pro Phe 160 145 150 150 160
162 Leu Pro Ser Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His Trp Gly
163 165 170 175
                  165
165 Leu Asp Glu Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro Ser Pro 166 180 185 190
168 Leu Pro Glu Thr Thr Glu Val Asp Gly Gly Gly Gly Gly Leu Thr Asp 169 195 200 205
171 Thr Leu Gln Ala Glu Thr Asp Gln Leu Glu Asp Glu Lys Ser Ala Leu
172 210 215 220
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200 <222> LOCATION: (22)..(615)
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RAW SEQUENCE LISTING

DATE: 08/01/2000 TIME: 13:05:48

PATENT APPLICATION: US/09/248,964

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Output Set: N:\CRF3\08012000\1248964.raw

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204	<22	<221> NAME/KEY: misc_feature															
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					(63												
211	<22	3> 0	THER	INF	ORMA'	TION	: Ju	n le	ucin	e zi	oper	dom	ain				
			EOUE														
214	gta	tct	ctc	gag	aaa	aga	qaq	qqq	qac	acc	сча	cca	cat	ttc	ctg	taa	48
															Leu		
216					<sup>2</sup> 5	_			_	10			5		15		
218	cag	cct	aag	agg	gag	tat	cat	ttc	ttc		aaa	acq	αaα	caa	gtg	caa	96
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220			4	20		-1-			25		U-1			30			
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223	Phe	Leu	Asp	Ara	Tvr	Phe	Tvr	Asn	Gln	Glu	Glu	Ser	Val	Ara	Phe	Asn	444
224		~~~	35		-1-		+1-	40	01	Oru	014	DCI	45	nr 9	1 110	NSP	
	age	gac		aaa	σασ	ttc	caa		ata	200	aaa	cta		caa	cct	~~~	192
															Pro		192
228	501	50		017	Oru		55	niu	vai	1111	GIU	60	GLY	AT 9	FIU	АЗР	
	act		tac	taa	220	200		224	a a c	2+0	ot a		~~~	~~~	cgg	~~~	240
															Arq		240
232	65	Olu	TYL	пр	A3II	70	GIII	цуз	ASP	TIE	75	GIU	GIII	на	ALG	80	
		ata	a a c	200	+ = 0		242	030	330	+ > 0		~++	~+~	~~~	agc		200
235	712	Val	Acn	Thr	Tur	Cuc	Ara	uic	Aan	m	999	y c c	y Ly	Clu	Ser	Dho	288
236	niu	va.	ASP	1111	85	CYS	nr 9	nııs	ASII	90	GLY	val	vai	GLU	95	Phe	
	202	ata	030	oaa		ato	023	aat	224		204	~+ ~	+ - +		tça		226
															Ser		336
240	1111	Val	GIII	100	Arg	Val	GIII	PIO	105	Val	THE	Val	Tyr		ser	гĀЗ	
	200	020	000		020	020	030	220		a+~	a+ 6	+~~	+-+	110	agt	~~+	204
242	Thr	Cln	Bro	LOU	Cln	Uic	Uac	Aac	Tou	Tou	37-1	Cuc	Con	919	Ser	991	384
244	1111	GIII	115	пец	GIII	nis	nrs	120	Leu	ьеи	vaı	Cys	125	vai	ser	GIY	
	tta	tat		~~~	200	a++	<b></b>		200	+	++-	a+ ~		~~~			422
240	Dho	Mur.	Dro	C1	Eor	Tla	Clu	ycc	ayy	Lgg	Dho	ctg	aac	ggc	cag	gaa	432
248	FIIC	130	FIU	GŢŸ	261	TTE	135	vai	Ary	тър	rne	140	ASII	GIY	Gln	GIU	
	a 2 a		aat	~~~	2+4	a+a			~~~							4	400
251	Clu	tuc	λla	211	Mot	y Ly	Com	mb.	990	Tau	alc	cag	aat	gga	gac Asp	Egg	480
	145	гуз	міа	GLY	Met	150	Set	1111	GTĀ	Leu		GIII	ASII	GTĀ	ASP		
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254	mbr	Dho	Cla	mb-	tou	yry	acy	tau	gaa	aca mb	900	D	cga	agt	gga	gag	528
256	TIII	FIIE	G T II	THE.	165	val	rie C	ьeu	GIU		vdi	PLO	Arg	ser	Gly	GIU	
	~++	+	3.00	+~~		~+~	~~~			170					175		
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	val	ıyr	rnr		GIU	val	GIU	HIS		ser	val	n'nr	ser		Leu	ı'nr	
260	~+~	~~-	+	180					185					190			٠
262	gtg	gaa	rgg	aga	gca	cgg	tct	gaa	tct	gca	cag	agc	aag	gtc	gac	gga	624
	vai	GIU		Arg	Ala	Arg	ser		ser	Ala	GIn	Ser		Val	Asp	GLY	
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/248,964

Input Set: A:\HAR005.APP.app
Output Set: N:\CRF3\08012000\1248964.raw

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267 Gly Gly Gly Arg Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Leu
268 210
215 220
270 aaa gct cag aac tcg gag ctc gcg tcc acg gcc aac atg ctc agg gaa
271 Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu

235

240

274 cag gtg gca cag ctt aaa cag aaa gtc atg aac cat tgagaattct atgac 275 Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His 276 245 250

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279 <210> SEQ ID NO: 4 280 <211> LENGTH: 252 281 <212> TYPE: PRT

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W--> 284 (223) OTHER INFORMATION:

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334 <210> SEQ ID NO: 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/248,964

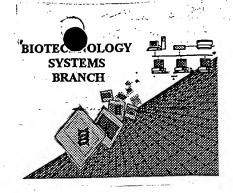
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Input Set : A:\HAR005.APP.app

Output Set: N:\CRF3\08012000\1248964.raw

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RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09

09/248,964

Source:

1644

Date Processed by STIC:

7/31/200

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## ERROR DETECTED SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a line not exceed 72 characters in length. This includes spaces Incorrect Line Length The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid Numbering between the numbering. It is recommended to delete any tabs and use spacing between fife numbers. This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. \_ Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. contain n's or Xaa's which represented more than one residue. Variable Length As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid Patentin ver. 2.0 "bug" sequence(s) 2.4 (more). Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. Skipped Sequences missing. If intentional, please use the following format for each skipped sequence: Sequence(s) (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Skipped Sequences \_\_\_ missing. If intentional, please use the following format for each skipped sequence. Sequence(s) \_\_ (NEW RULES) <210> sequence id number <400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Use of <213>Organism are missing this mandatory field or its response. (NEW RULES) Use of <220>Feature are missing the <220>Feature and associated headings. (NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

Instead, please use "File Manager" or any other means to copy file to floppy disk.

Application N :: 09/248964

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	<ol> <li>This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.</li> </ol>
	<ol><li>This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).</li></ol>
	<ol> <li>A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).</li> </ol>
X	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Аp	plicant Must Provide:
A	An <u>initial</u> or substitute computer readable form (CRF) copy of the "Sequence Listing".
Ø	An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
<b>X</b>	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For Patentin software help, call (703) 308-6856

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